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	PTMAN GILMAN & BE	AMINI, JAVID A		
1700 DIAGNOSTIC ROAD, SUITE 300 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2672	i G
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Please find below and/or attached an Office communication concerning this application or proceeding.

			unlication No.	Annilanda			
Office Action Summary		Ap	oplication No.	Applicant(s)			
		09	9/535,733	MILLINGTON ET AL.			
		Ex	aminer	Art Unit			
			vid A Amini	2672			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Deposition to communication(s) filed	an 01 Dags					
· · ·	Responsive to communication(s) filed on <u>01 December 2003</u> .						
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠	4) Claim(s) 1-30 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>3-9,11-15,17,18 and 22-30</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
_	The specification is objected to by the B	Examiner					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including th	e correction is	s required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12)   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1.   Certified copies of the priority documents have been received.  2.   Certified copies of the priority documents have been received in Application No  3.   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) The translation of the foreign language provisional application has been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachmen	•						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449) Pape		5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			
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# Response to Amendment

Applicant's arguments filed December 01, 2003 have been fully considered but they are not persuasive.

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 30 rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. "Desired intensity is approximately 25%" critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Applicant should provide the significant of approximately 25%? Applicant should also provide the steps of measurement of the intensity?

**Note:** Applicant canceled claim 19 on page 1, line 16 of Amendment dated November 13, 2003. Then the dependent claims 20 and 21 are canceled in this office action.

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# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-9, 11-15, 17-18, and 22-30 rejected under 35 U.S.C. 103(a) as being unpatentable over Person US patent 5,067081, and further in view of Millington with US patent 6,175,801 B1 (The product is 750NAV that illustrated on "Auto Nav 2000 Plus, Inc").

# 1. Claim 3,

Regarding claim 3, "wherein the less detailed desired cartographic entity is no cartographic entity". Person discloses (cols. 14 and 15, lines 65-67;1-3) the effect of this invention is to tailor a more detailed electronic map to the precise needs of the user, thereby filtering out the unnecessary information and permitting significantly more useful information within the confines of the display screen. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millinton into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a

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radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

# 2. Claim 4,

Regarding claim 4, "determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes with the first operational mode comprises on road mode in which a vehicle position is displayed relative to a road system and the second operational mode comprises off-road mode in which the vehicle position is displayed irrelative to a road system; selecting a desired cartographic entity for a cartographic feature based upon the cartographic feature in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed cartographic entity for the same cartographic feature in the second operational mode; and displaying the selected desired cartographic entity on the video display". Person discloses in (col. 7, lines 56-60) for selecting a desired cartographic entity. Person discloses Fig. 4 more than two operational modes (all, cities, roads, land) and the power on initialize that determining an operational mode of the navigation system. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings,

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other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature. landmark, or roadway within the designated radius or within the designated path width.

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#### 3. Claim 5,

Regarding claim 5, "wherein a first cartographic entity is displayed when navigation system is in off-road mode and said first cartographic entity is not displayed with the navigation system is in on-road mode". Person discloses in Fig. 4 the operation mode "ALL" that will display the cartographic entity; it can be either on or off road mode. Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24.

#### Claim 6, 4.

Regarding claim 6, "Wherein the navigation system includes a third operational mode comprising on-road guidance mode, and step b) includes selecting a least detailed desired cartographic entity that is one of the same as the less detailed desired cartographic entity and a less detailed version of the less detailed desired cartographic entity the less detailed desired cartographic entity for the on-road mode.

Person discloses (Col. 14, lines 59-65) that the user may use the system to navigate between the present location and any final or intermediate destination by setting the width of a path between the two points and calling up the same information falling within this designated path. This provides a list of population centers, roads, major buildings, and other landmarks to be looked for along the way as a guide for the user. Millington on col. 5, lines 1-13 discloses that the

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navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24.

# 5. Claims 7 and 8,

Regarding claim 7, "determining an operational mode of navigation system wherein the navigation system includes first and second operational modes and the first operational mode is defined by a predetermined vehicle speed; selecting a desired cartographic entity for a cartographic feature based upon reaching the predetermined vehicle speed in the first operational mode including selecting a less detailed desired artographic entity for the cartographic feature at the predetermined vehicle speed in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed desired cartographic entity for the same cartographic feature in the second operational mode; and displaying the selected desired cartographic entity on the video display". Person discloses in (col. 7, lines 56-60) for selecting a desired cartographic entity. Person discloses Fig. 4 more than two operational modes (all, cities, roads, land) and the power on initialize that determining an operational mode of the navigation system. Person discloses (Col. 3,lines 5-12) that his navigation system does not require inputting settings into the system before making use of it, unlike other navigational systems and is significantly less costly to build than systems requiring the attachment of bearing and speed sensors to a moving vehicle, reading the results into the device, and computing the present location and heading from such ever-changing data. By knowing the speed of system the distance and time can be calculated using this formula: X(destination)=V(speed)T (time). As the vehicle moves the display is updating the current information. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the

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navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

### 6. Claim 9,

Regarding claim 9, "determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes and the less detailed desired cartographic entity is defined by perimeter with cross-hatching within the perimeter and the more detailed desired cartographic entity is defined by the perimeter with solid shading disposed within the perimeter; selecting a desired cartographic entity for a cartographic feature base upon the operational mode, including selecting a less detailed desired cartographic entity for the cartographic feature in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed cartographic entity for the same cartographic feature in the second operational mode; and displaying the selected desired cartographic entity on video display". Person discloses in (col. 7, lines 56-60) for selecting a desired cartographic entity.

Person discloses Fig. 4 more than two operational modes (all, cities, roads, land) and the power

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on initialize that determining an operational mode of the navigation system. Person discloses (Col. 3, lines 5-12) that his navigation system does not require inputting settings into the system before making use of it, unlike other navigational systems and is significantly less costly to build than systems requiring the attachment of bearing and speed sensors to a moving vehicle, reading the results into the device, and computing the present location and heading from such everchanging data. By knowing the speed of system the distance and time can be calculated using this formula: X(destination)=V(speed)T (time). As the vehicle moves the display is updating the current information. Person discloses Fig. 3 a graphic color memory 79 stores data of primary colors and is coupled with a color generator 80 and is accessible through multiplexer 67 to the microprocessor 55 and the display device 17 for providing various graded color data. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

### 7. Claim 11

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Regarding claim 11, "determining an operational mode of the navigation system; selecting a first cartographic entity for a first cartographic feature base upon the operational mode, wherein the first cartographic entity is a vehicle route having a first intensity, and selecting a second intensity for a second desired cartographic entity for a second cartographic feature which is different than the first intensity; and simultaneously displaying the first and second desired cartographic entities on video display". Person discloses in (col. 7, lines 56-60) for selecting a desired cartographic entity. Person discloses Fig. 4 more than two operational modes (all, cities, roads, land) and the power on initialize that determining an operational mode of the navigation system. Person discloses (Col. 3,lines 5-12) that his navigation system does not require inputting settings into the system before making use of it, unlike other navigational systems and is significantly less costly to build than systems requiring the attachment of bearing and speed sensors to a moving vehicle, reading the results into the device, and computing the present location and heading from such ever-changing data. By knowing the speed of system the distance and time can be calculated using this formula: X(destination)=V(speed)T (time). As the vehicle moves the display is updating the current information. Person discloses in Fig 3. a light control switch 27 on the operation control section 18 controls a light source to allow use of the navigational apparatus during non-daylight hours. The light source (not shown) may be located on the lid to direct light on the operation control and keyboard sections 18 and 19, or may be located beneath the surface of the housing to backlight the keys and switches. Also Person discloses in Fig. 3 that a radius

generation program 76 in memory 75 graphically display a radius of the appropriate points or

landmarks within the selected radius on the screen. Person does not explicitly specify the terms

"on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the

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navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

# 8. Claims 12-15,

Regarding claim 12, "wherein the first and second intensities are selected from a color palette having a plurality of colors"; Regarding claim 13, "wherein the first and second intensities are selected a color palette having a plurality of colors"; Regarding claim 14, "wherein each of the plurality of colors are defined by green, and red values with the first intensity having first blue, green, and red values and the second intensity having second blue, green, and red values that are a percentage of the glue, green, and red values, respectively"; Regarding claim 15, "wherein the first intensity is approximately twenty percent less than the second intensity wherein the first blue, green, and red values are approximately twenty-five percent less than the second blue, green, and red values, respectively.

Person discloses in Claim 19 and (col. 10, lines 43-54) the character memory 66, population center memory 69, landmark memory 71, roadway or linear memory 73, radius memory 75, path

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memory 77 (and optional graphic color memory 79) are each accessible, through multiplexer 67, to the microprocessor 55 and display control circuit 65. Data output from the character generator 67, population center generator 70, landmark generator 72, roadway or linear generator 74, radius generator 76, path generator 78 (and optional graphic color generator 80) is transmitted to the display device 17 through a video controller 68. Also in (Col. 7, lines 40-49) a control switch 46 causes a display on the screen of a dot representing only cities or population centers falling in whole or in part within the radius around the current or designated location, and displays at the same time the mileage between the location and the destination and the bearing or direction to the destination. The dot is positioned on the screen relative to the latitude and longitude of the population center it represents. In more sophisticated systems, each type of population center may be further distinguished by size of the dot or different colors. Color generator generates the combination of following colors (blue, green and red) in display. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the

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distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

### 9. Claim 17

Regarding claim 17, "at least one position determining device for providing a vehicle location signal; a database having a map with cartographic features and cartographic entities for representing said cartographic features; a processor interconnected to said at least one positioning device and said database for determining the location of the vehicle relative to said map; a video display connected to said processor for displaying an area of said map; a plurality of operational modes each displaying said map area, wherein said processor determines an operational mode from said plurality of said operational modes and selects a desired cartographic entity for a cartographic feature based upon said operational mode, said processor displaying said selected desired cartographic entity on said video display, wherein said plurality of operational modes includes first and second operational modes, and said processor selects a less detailed desired cartographic entity for said said cartographic feature in said first operational mode and selects a more detailed desired cartographic entity than said less detailed desired cartographic entity for said same cartographic feature in said second operational mode, and wherein said first operational mode comprises on-road mode in which a vehicle position is displayed relative to a road system and said second operational mode comprises off-rode mode in which said vehicle position is displayed irrelative to a road system", Person discloses (Col. 15, lines 1-3) the effect of this invention is to tailor a more detailed electronic map to the precise needs of the user, thereby filtering out the unnecessary information and permitting significantly more useful information within the confines of the display screen. Person discloses in Fig. 4 more than two

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operational modes (all, cities, roads, land). Person discloses in (col. 14, lines 50-55) that user may set a desired radius from current location. Person illustrates in Fig. 2 the microcomputer unit (processor) that receives information from its sources and calculates the location. See Fig. 4 for plurality of operational modes. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

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#### 10. Claim 18

Regarding claim 18, "wherein said plurality of operational modes les first and second operational modes, and said processor selects a less detailed desired cartographic entity for said first operational mode and selects a more detailed desired cartographic entity than said less detailed desired cartographic entity for said second operational mode"; "wherein said less detailed desired cartographic is no cartographic entity".

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Person discloses (Col. 15, lines 1-3) the effect of this invention is to tailor a more detailed electronic map to the precise needs of the user, thereby filtering out the unnecessary information and permitting significantly more useful information within the confines of the display screen. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

#### 11. Claims 22 and 23

Regarding claims 22 and 23, "wherein said first operational mode is defined by a predetermined vehicle speed"; "wherein said first operational mode comprises a panning mode".

Person discloses (Col. 3,lines 5-12) that his navigation system does not require inputting settings into the system before making use of it, unlike other navigational systems and is significantly less costly to build than systems requiring the attachment of bearing and speed sensors to a moving vehicle, reading the results into the device, and computing the present location and

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heading from such ever-changing data. By knowing the speed of system the distance and time can be calculated using this formula: X(destination)=V(speed)T (time). As the vehicle moves the display is updating the current information. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

### 12. Claim 24,

Regarding claim 24, "wherein said less detailed desired cartographic is defined by a perimeter with cross-hatching disposed within said perimeter and said detailed desired cartographic entity is defined by said perimeter with solid shading disposed within said perimeter".

Person discloses Fig. 3 a graphic color memory 79 stores data of primary colors and is coupled with a color generator 80 and is accessible through multiplexer 67 to the microprocessor 55 and the display device 17 for providing various graded color data. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the

designated radius or within the designated path width.

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navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the

#### Claims 25-28 13.

Regarding claims 25 and 26, "determining an operational mode of the navigation system; selecting a first desired intensity for a first desired cartographic entity defining a focal cartographic entity based upon the operational mode; and simultaneously displaying the first desired cartographic entity on the video display at the desired intensity"; wherein the focal cartographic entity is a vehicle route having an vehicle route intensity and includes selecting the desired intensity for the desired cartographic entity which is different than the vehicle route intensity", The step of claim 26 is obvious because the Navigation system of Millington with assignee of Magelan DTS inc., is the same product as the 750NAV that illustrated on "Auto Nav 2000 Plus, Inc.". The 750NAV is PC compatible that allows the user to create personal address book, update the system map database and import data information from a PC. Person discloses in (col. 7, lines 56-60) for selecting a desired cartographic entity. Person discloses Fig. 4 more

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than two operational modes (all, cities, roads, land) and the power on initialize that determining an operational mode of the navigation system. Person does not explicitly specify the terms "on" and "off" roads modes, however Millington on col. 5, lines 1-13 discloses that the navigation system 20 can also determine a route that does not use any roads 52, as when vehicle 32 is off-road. The determined route is displayed on the display device 24. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Millington into Person in order to improve by adding the Millington's program that can determine a route that does not use any roads, as when vehicle is off-road. And also the user will have access to roads, population centers, airports, buildings, other landmarks, mileages, and bearings or directions according to the operator's request are displayed visually or vocally. The user may specify a radius around the current or destination location, and receive the distance between the destination and any other geographical feature, landmark, or roadway within the designated radius or within the designated path width.

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# 14. Claims 29 and 30,

Regarding claims 29 and 30, "wherein each of the plurality of colors are defined by green, and red values with the vehicle route intensity having first blue, green, and red and the second desired intensity having second blue, green, and red values that are a percentage of the first blue, green, and red values, respectively"; "wherein the desired intensity is approximately 25% less than the vehicle route intensity wherein the first blue, green, and red values are approximately 25% less than the second blue, green and red values respectively". The step is obvious because the 750NAV contains a high-resolution color display and illustrates different intensity.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A Amini whose telephone number is 703-605-4248. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 703-305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-746-8705.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Javid A Amini Examiner Art Unit 2672

Javid Amini

JEFFERY ENIELI
PRIMARY EXAMINER